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Application Serial No.: Unassigned  
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**Amendments to the Specification:**

Please amend the specification as follows:

**ABSTRACT:**

The present invention relates to a binary single phase titanium-zirconium alloy suitable for the production of surgical implants. The alloy includes a zirconium content of less than 25% but more than 5% by weight, and 0.1% to 0.3% by weight of oxygen as a strength enhancing additive, and not more than 1% by weight of other strength enhancing additives and technical impurities.